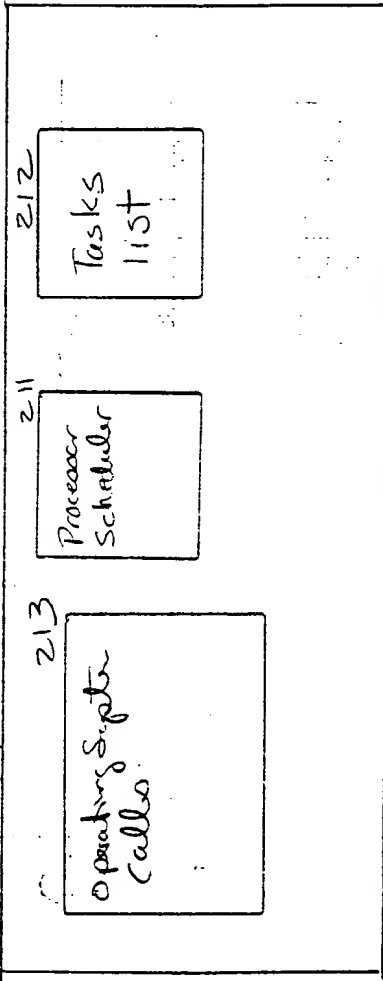


Figure 1

Operating System 210



220

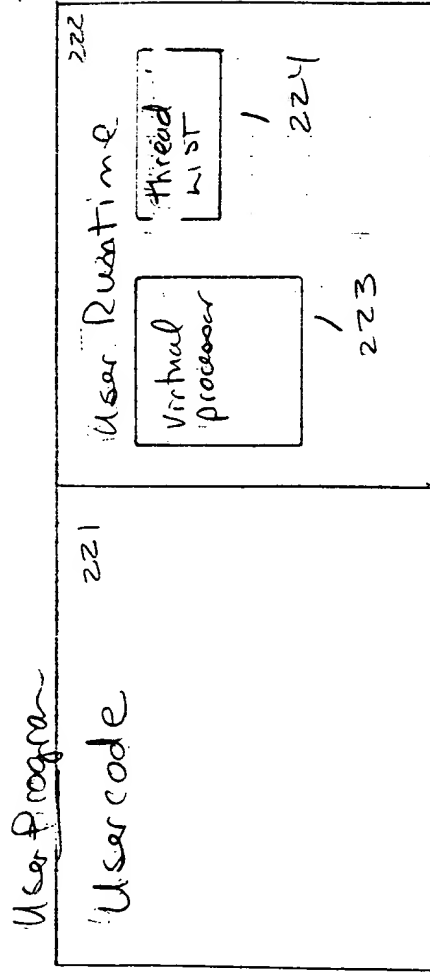


Figure 2

00192205-111398

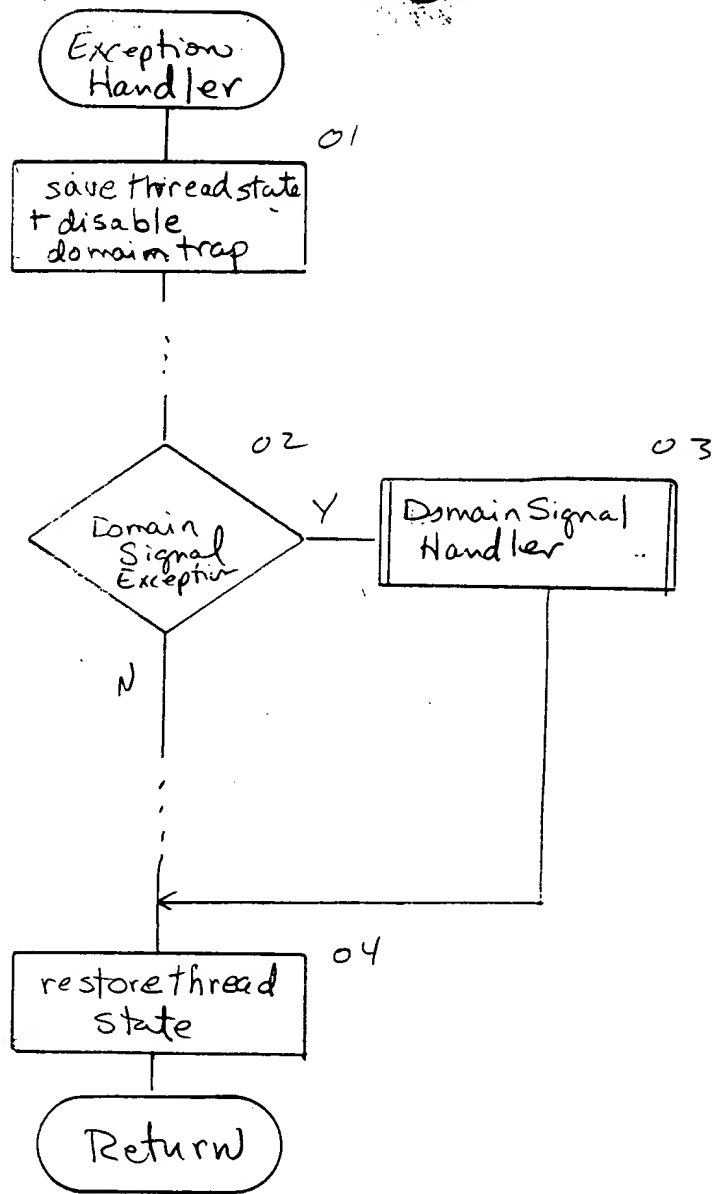
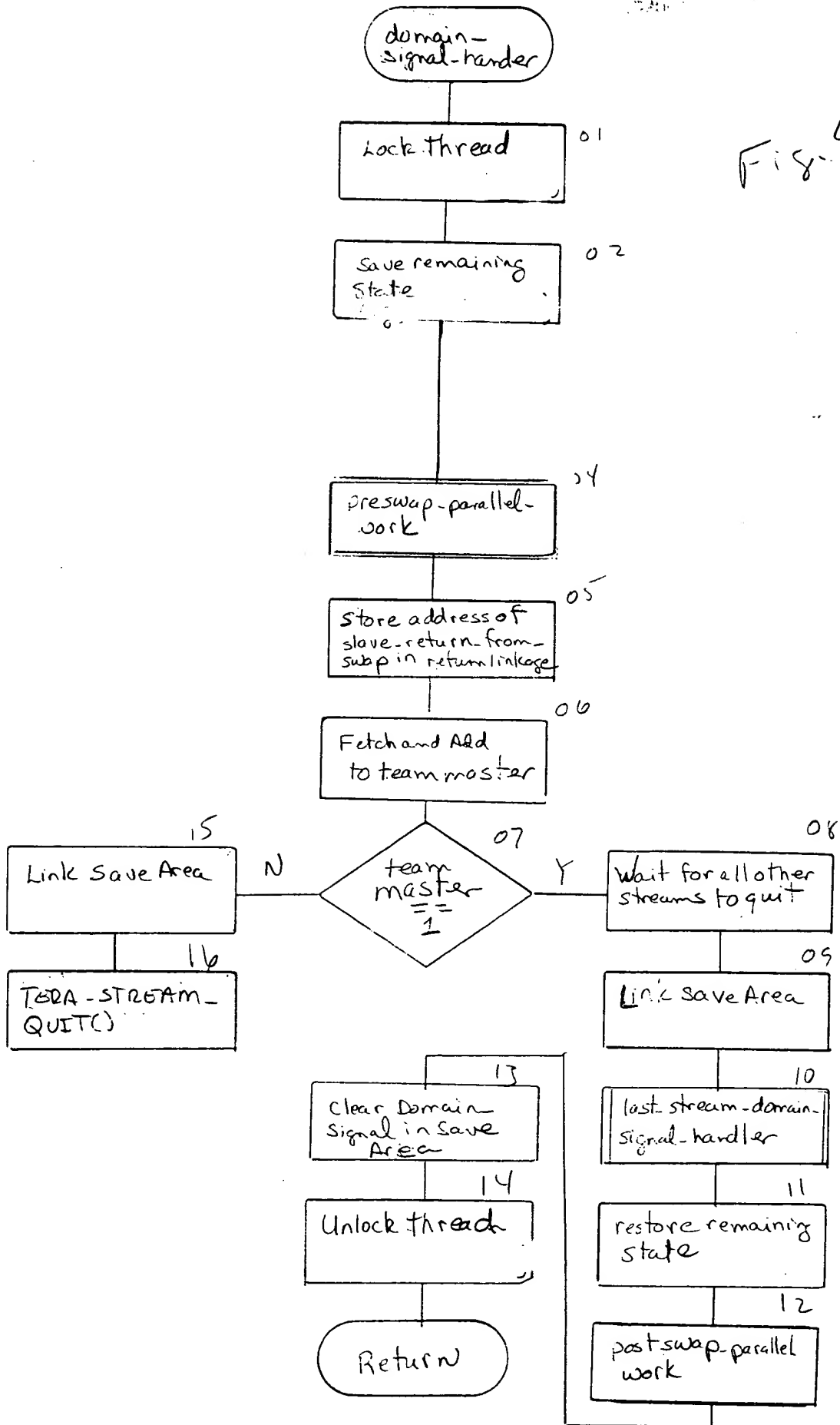
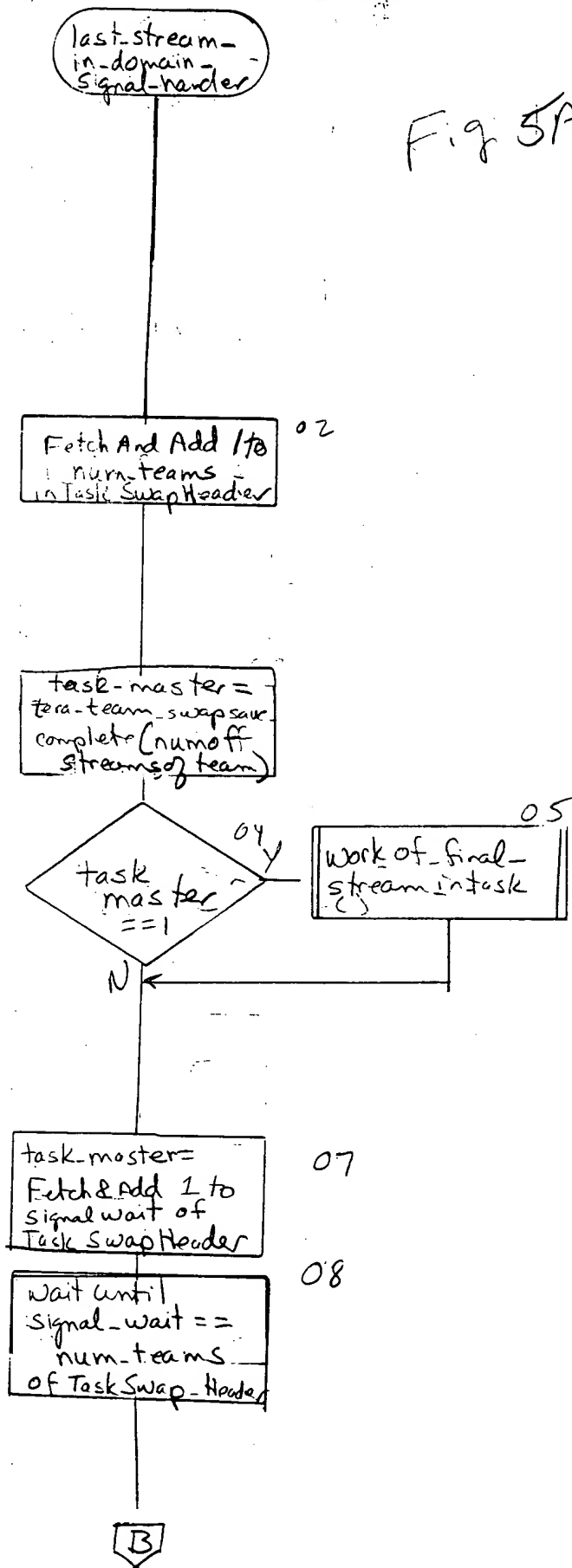
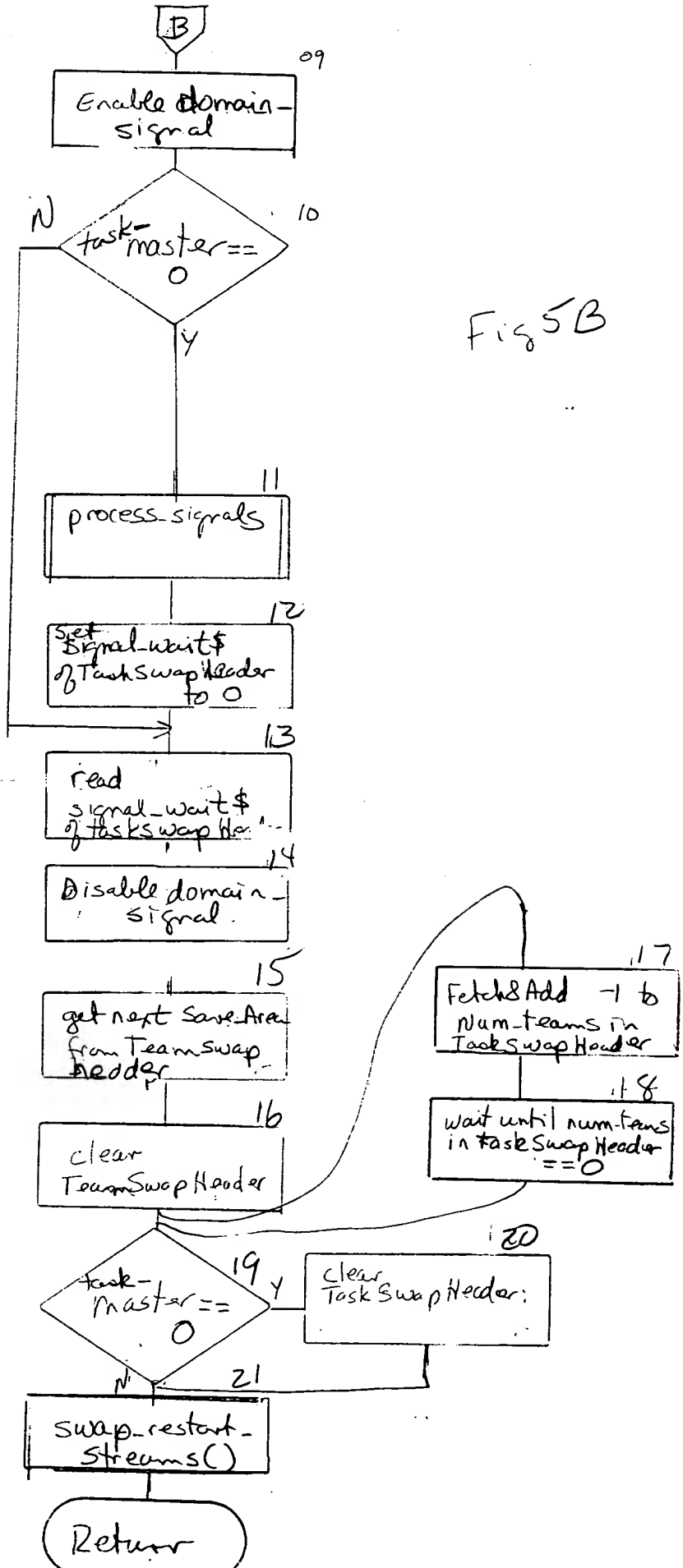


Fig 3







workOf-fine-
Stream-in--
task

01

ts-blocked=
determine-blocked
status()

02

task-task-
save-swap-complete
(ts-blocked)

Return

Fig-6

09192205-111398

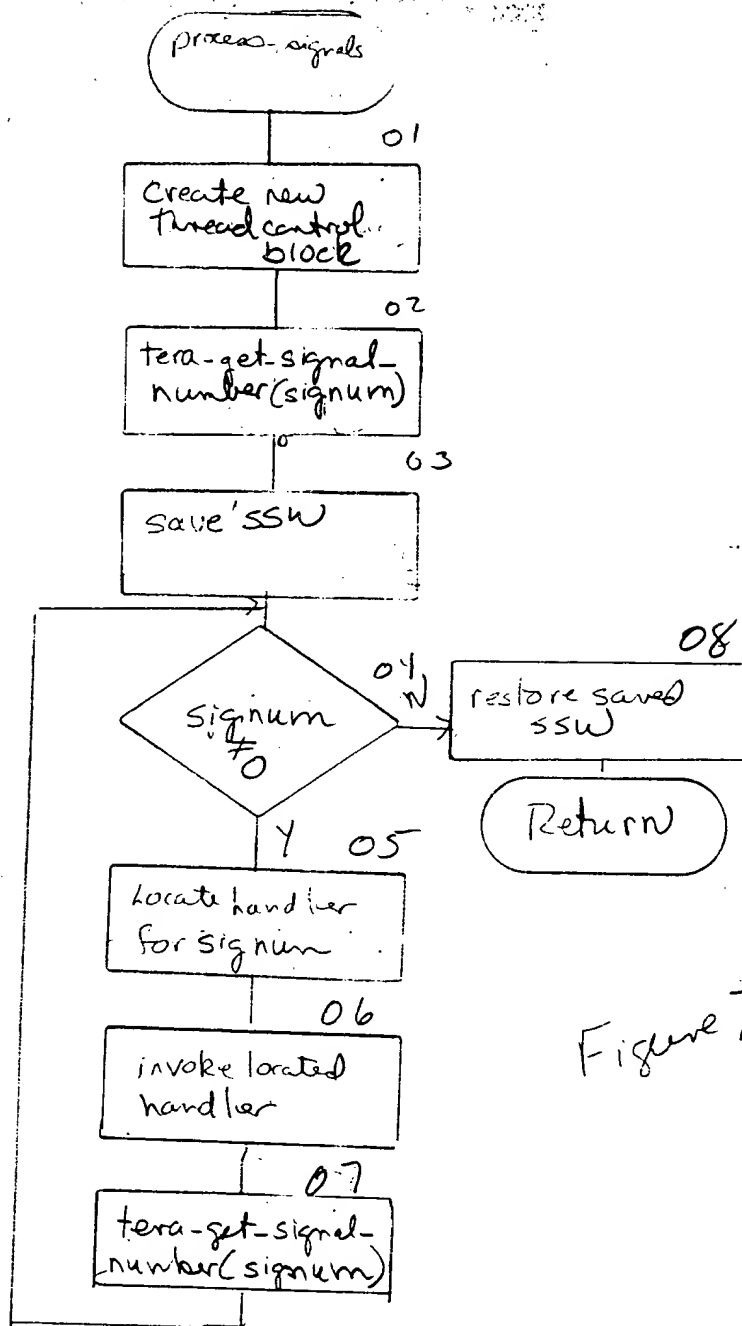


Figure 7

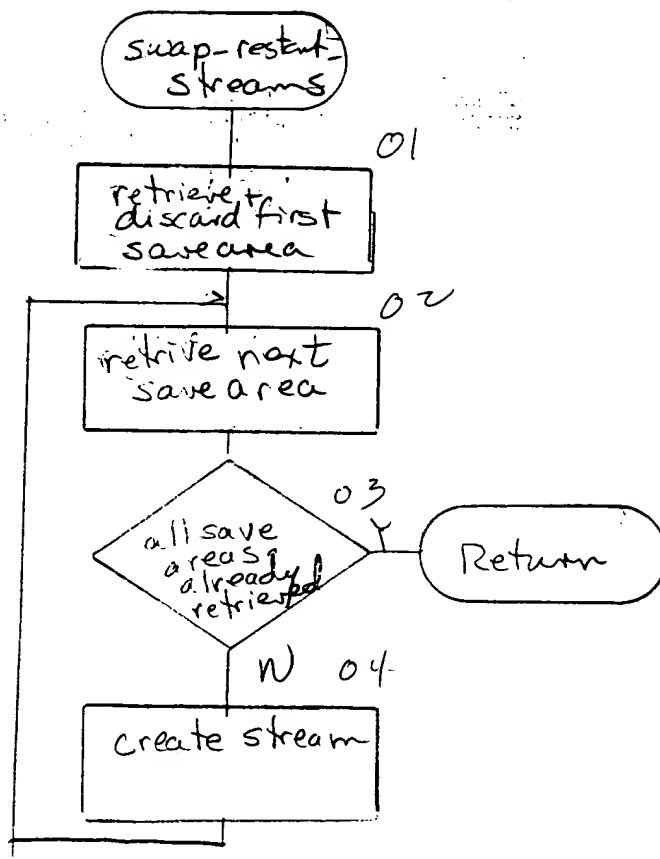


Fig 8

slave-return
from-swap

01

restore
remaining state

02

postswap-parallel-
work

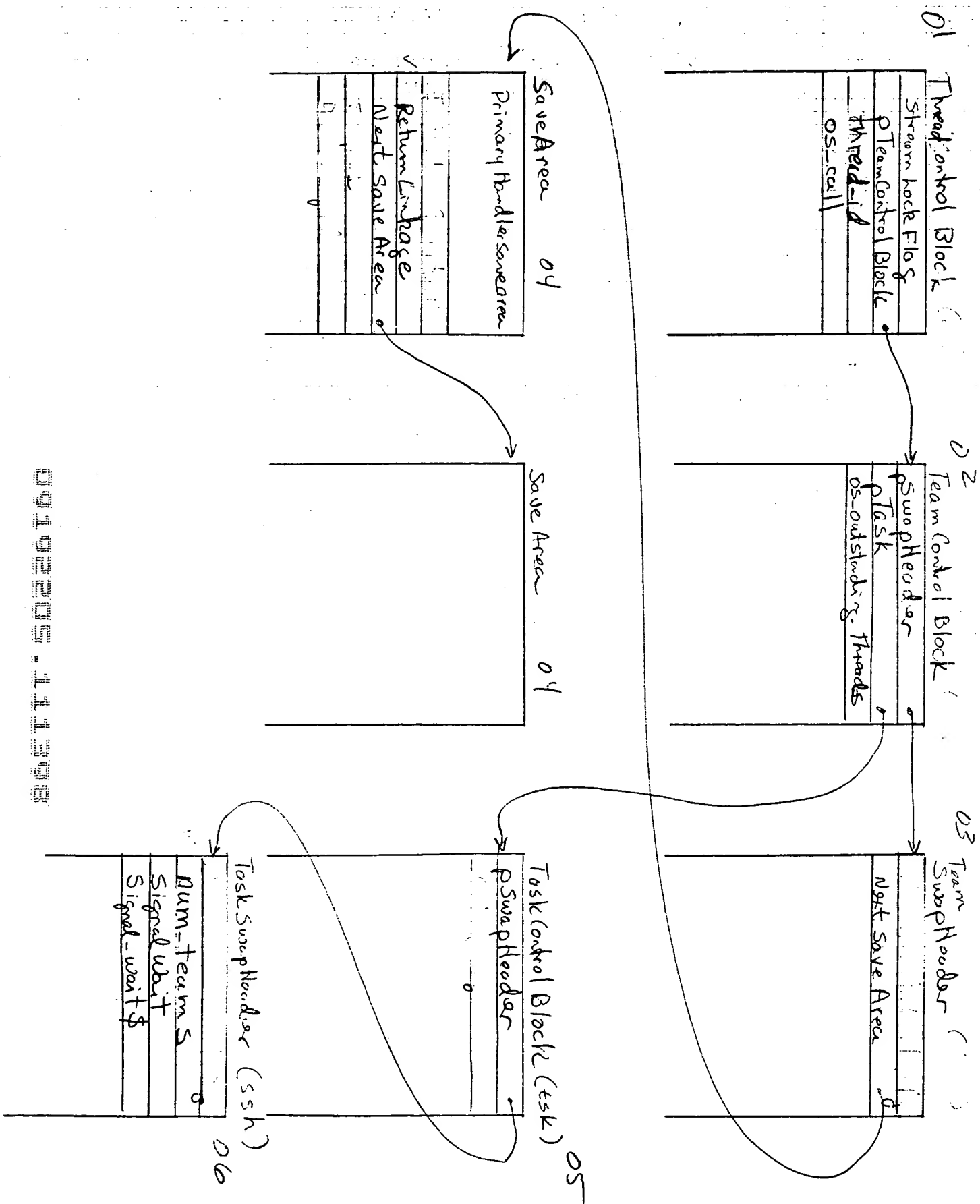
Unlock
thread

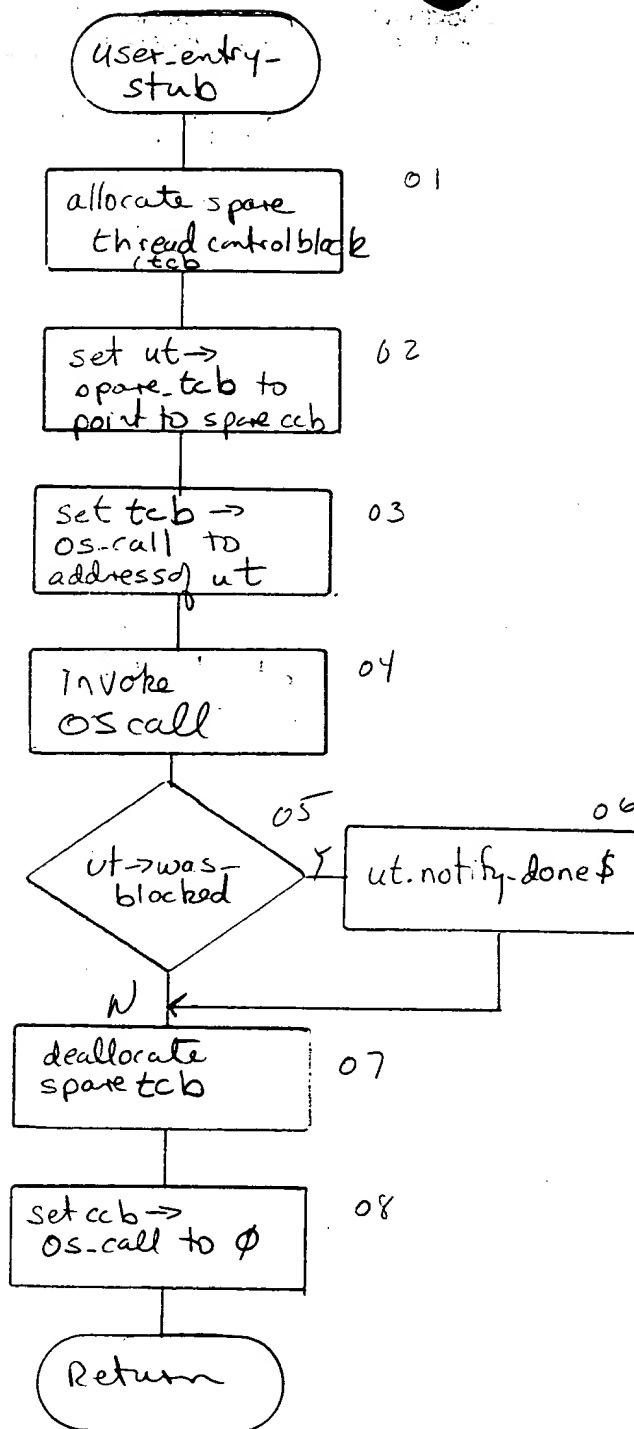
03

Return

Fig 9

Figure 10





Fig

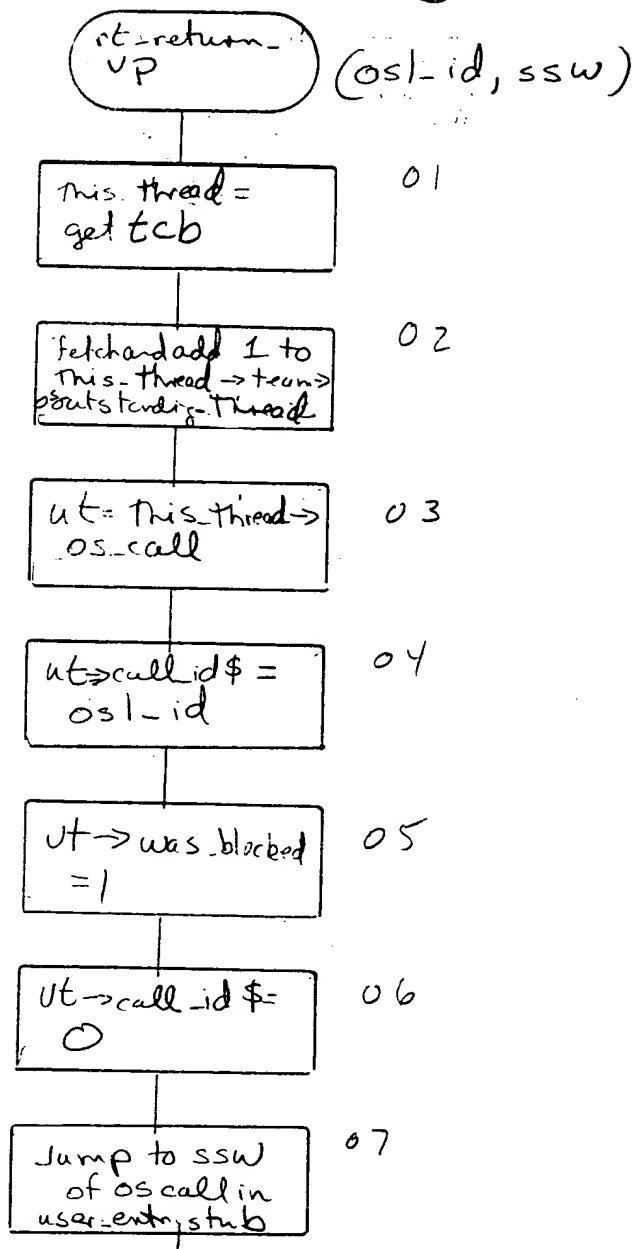


Fig 12

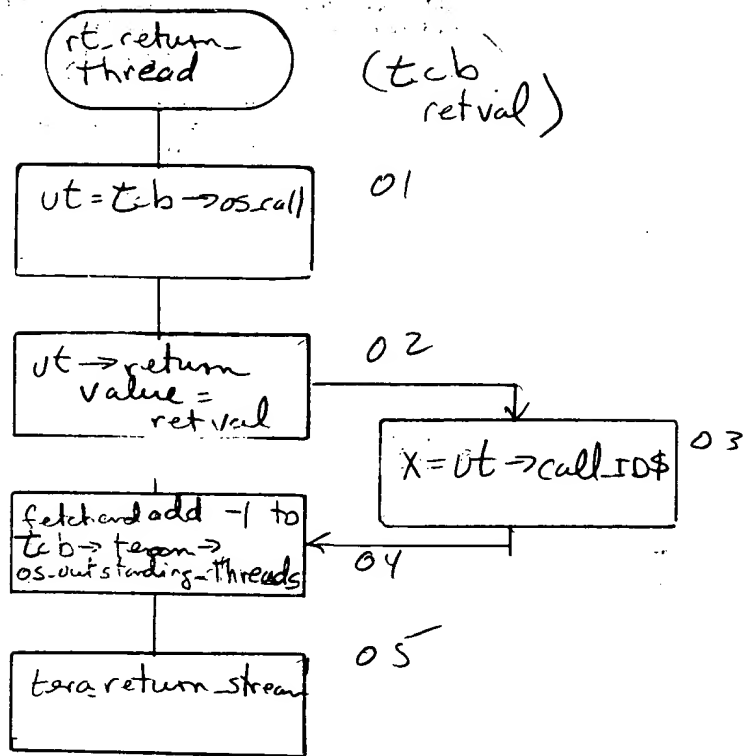


Fig 13

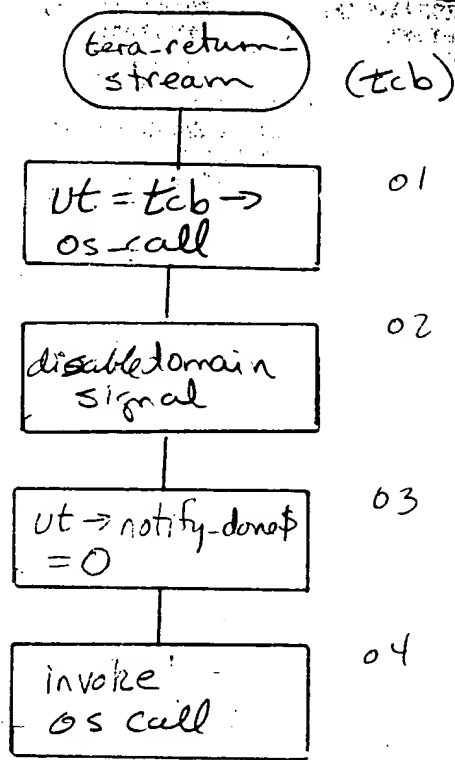


Fig 14

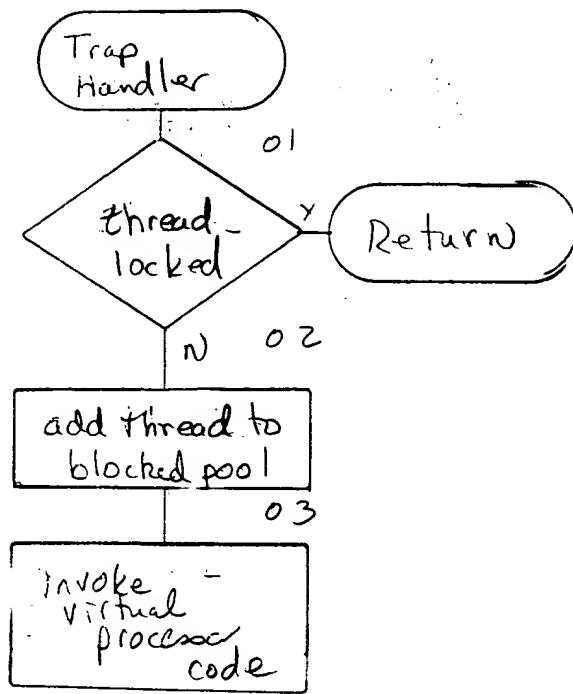


Fig 15

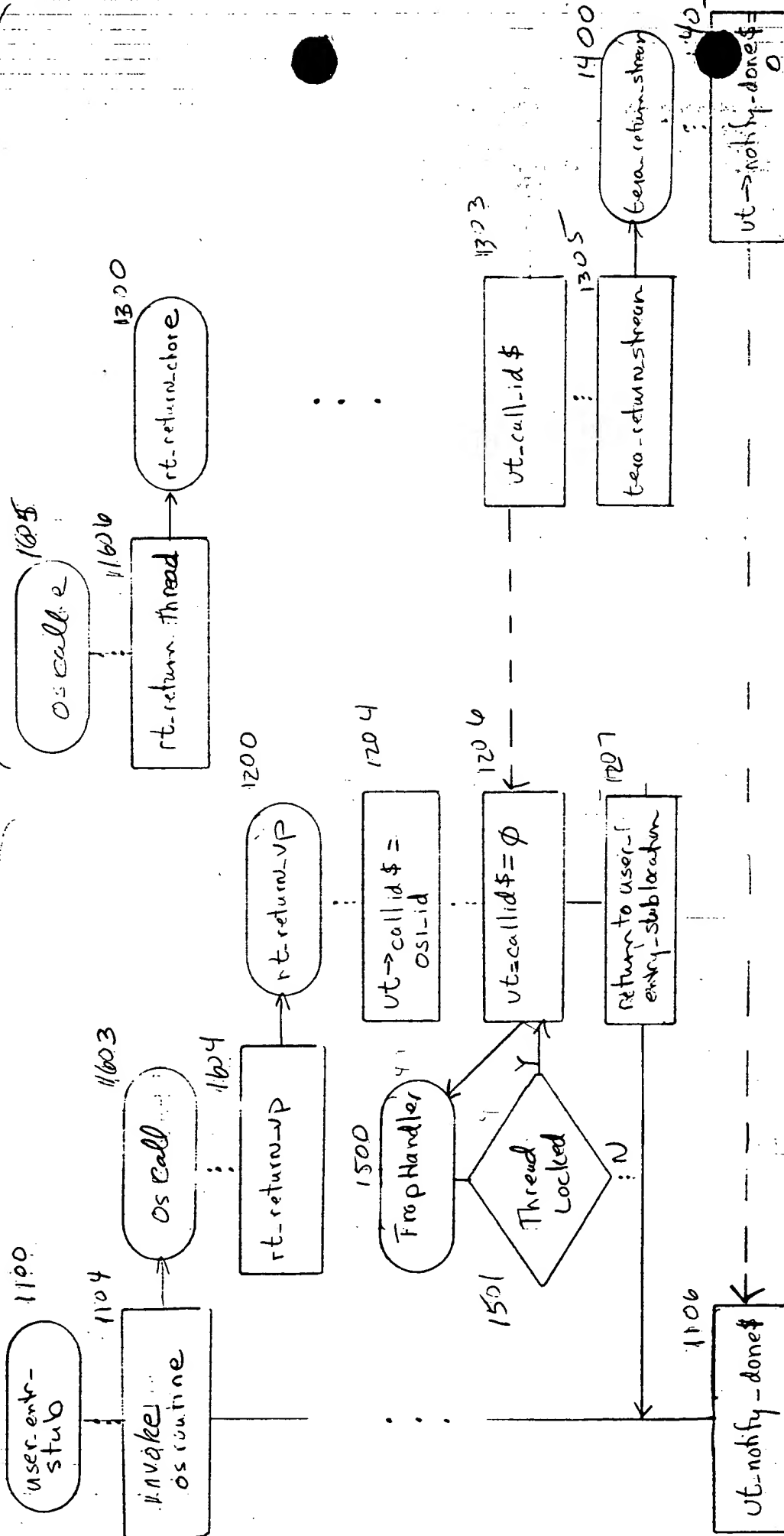


Fig 16A

wt

was blocked
call-id \$
not by - done \$
spark tab
return value

Figure 16B

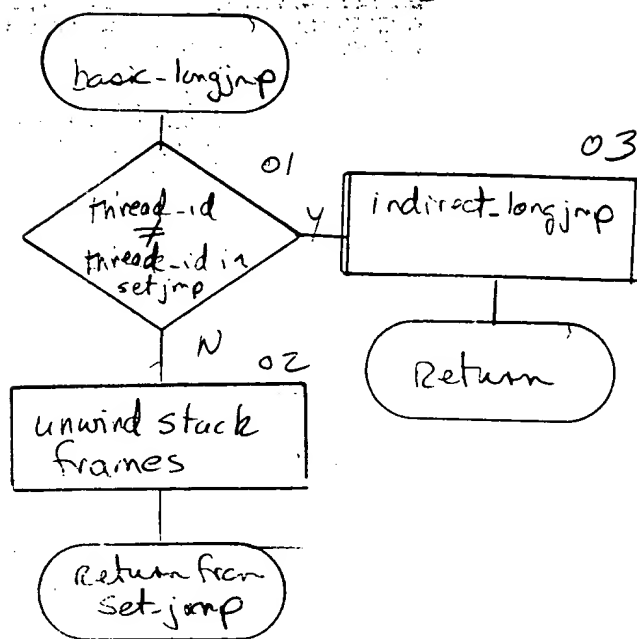


Fig 17

00192205-111393

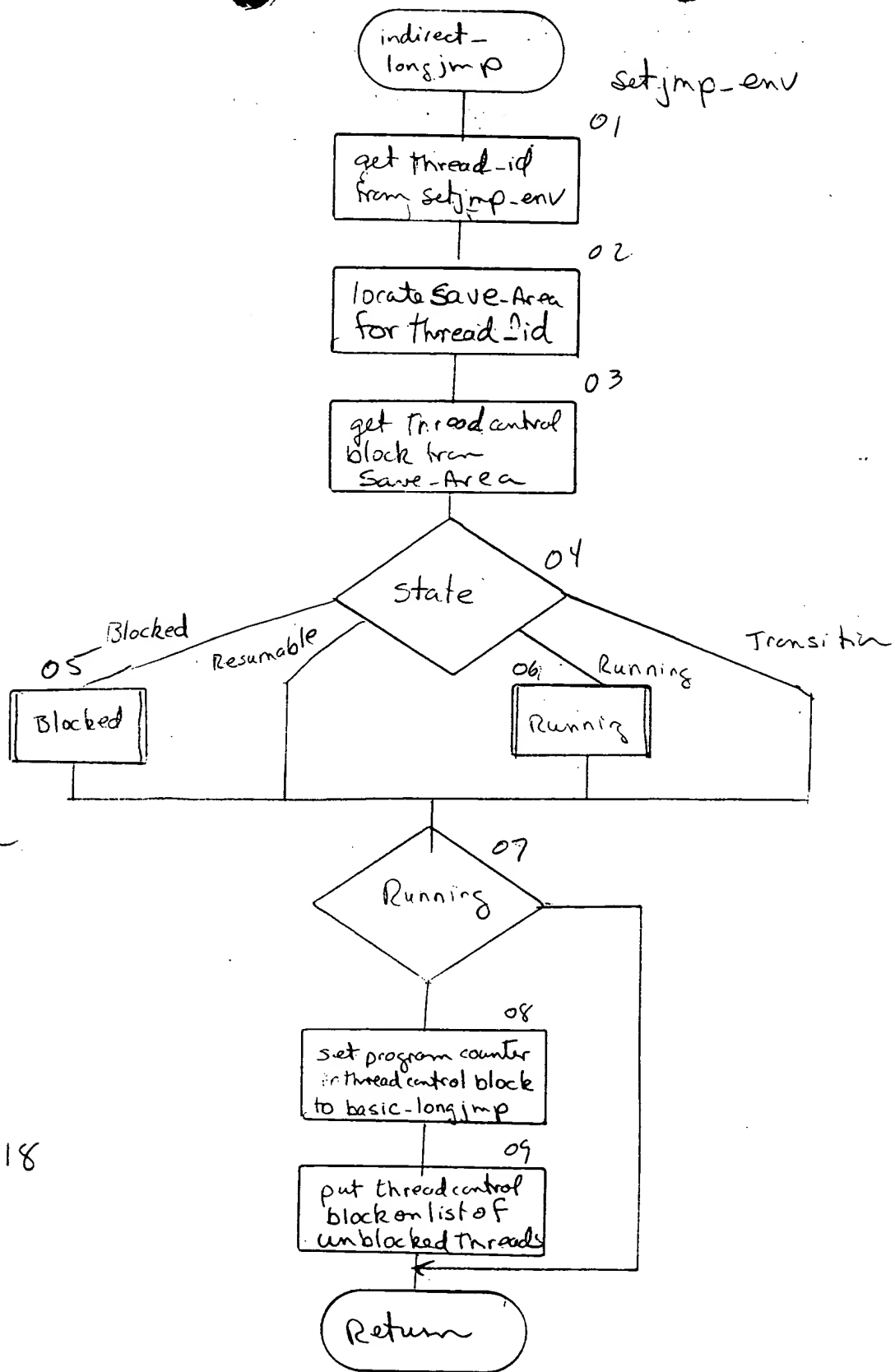


Fig 18

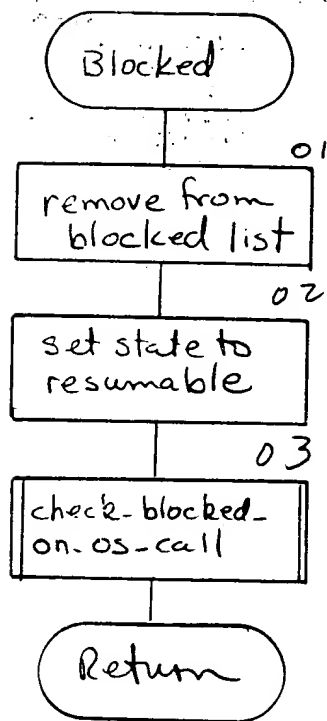


Fig 19

Fig 20

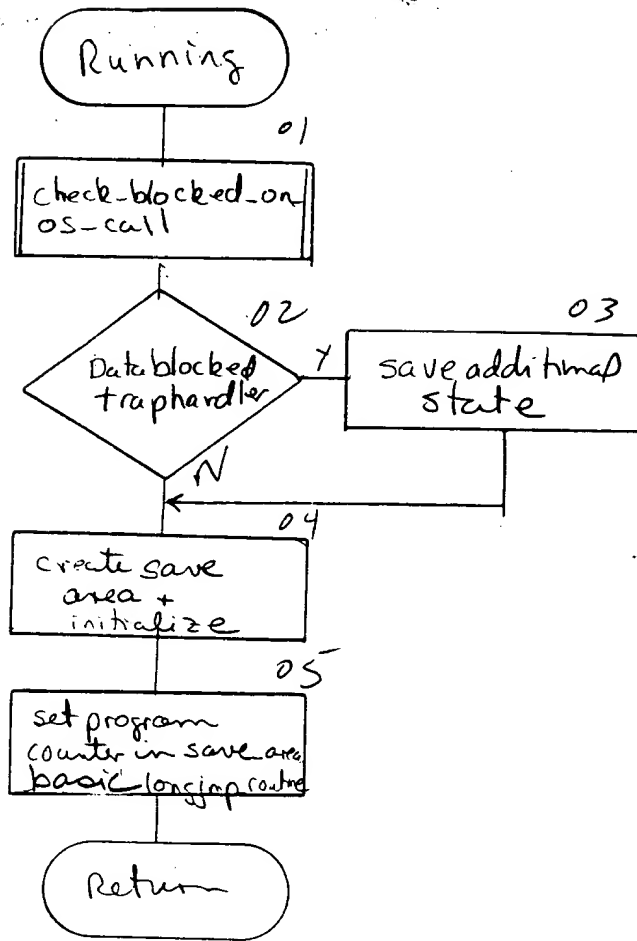
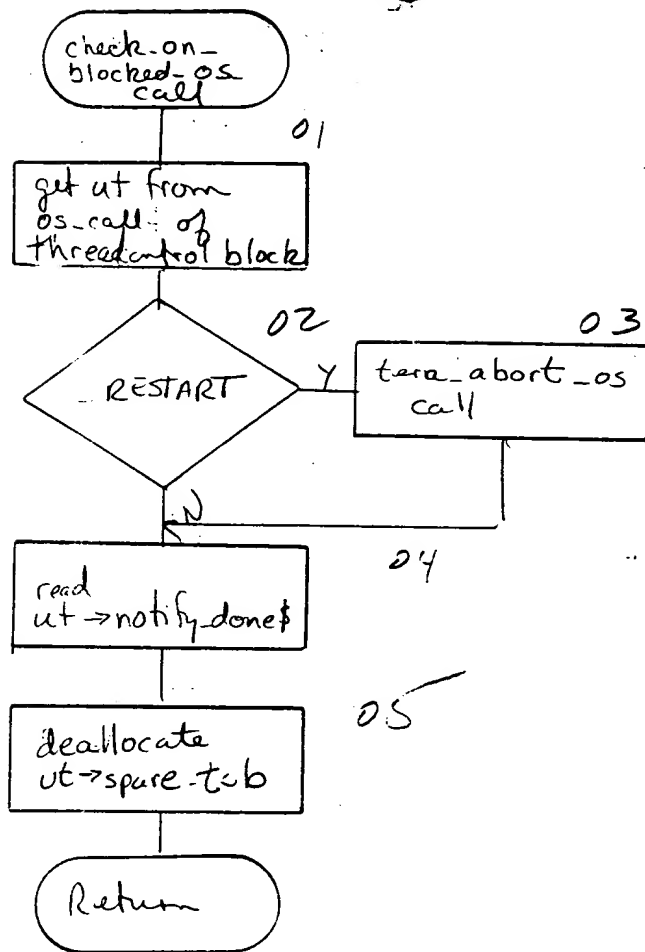


Fig 21-



00402205-111300